

Title (en)

MEDICAL IMAGE PROCESSING SYSTEM AND LEARNING METHOD

Title (de)

SYSTEM ZUR VERARBEITUNG MEDIZINISCHER BILDER UND LERNSYSTEM

Title (fr)

SYSTÈME DE TRAITEMENT D'IMAGES MÉDICALES ET PROCÉDÉ D'APPRENTISSAGE

Publication

EP 3868281 A4 20211208 (EN)

Application

EP 19873567 A 20191011

Priority

- JP 2018195034 A 20181016
- JP 2019040247 W 20191011

Abstract (en)

[origin: US2021224989A1] An effective diagnosis region detection unit uses an effective diagnosis region detection model and detects an effective diagnosis region in which a non-target region of interest other than a region of interest is removed from an observation target, from a first medical image. The effective diagnosis region detection model is obtained by learning using first learning data including the first medical image and effective diagnosis region information regarding the effective diagnosis region. The region-of-interest detection unit detects the region of interest from the effective diagnosis region.

IPC 8 full level

A61B 1/045 (2006.01); **A61B 1/00** (2006.01); **G06T 7/00** (2017.01); **G06T 7/11** (2017.01); **G16H 30/40** (2018.01)

CPC (source: EP US)

A61B 1/00 (2013.01 - EP); **A61B 1/045** (2013.01 - EP); **G06T 7/0012** (2013.01 - EP US); **G06T 7/11** (2017.01 - EP); **G16H 30/40** (2018.01 - EP US); **G16H 50/20** (2018.01 - US); **G06T 2207/10068** (2013.01 - EP); **G06T 2207/20081** (2013.01 - EP US); **G06T 2207/20084** (2013.01 - EP); **G06T 2207/30028** (2013.01 - EP); **G06T 2207/30096** (2013.01 - EP US)

Citation (search report)

- [YD] WO 2018008593 A1 20180111 - NEC CORP [JP]
- [Y] US 2016007830 A1 20160114 - CHUN MINKYUNG [JP]
- [A] US 2013051680 A1 20130228 - KONO TAKASHI [JP], et al
- [XY] FUNKE ISABEL ET AL: "Generative adversarial networks for specular highlight removal in endoscopic images", PROGRESS IN BIOMEDICAL OPTICS AND IMAGING, SPIE - INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, BELLINGHAM, WA, US, vol. 10576, 12 March 2018 (2018-03-12), pages 1057604 - 1057604, XP060106745, ISSN: 1605-7422, ISBN: 978-1-5106-0027-0, DOI: 10.1117/12.2293755
- See also references of WO 2020080299A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 11830185 B2 20231128; **US 2021224989 A1 20210722**; CN 112867430 A 20210528; CN 112867430 B 20240625; EP 3868281 A1 20210825; EP 3868281 A4 20211208; EP 3868281 B1 20240807; JP 7092888 B2 20220628; JP WO2020080299 A1 20210930; WO 2020080299 A1 20200423

DOCDB simple family (application)

US 202117225872 A 20210408; CN 201980068112 A 20191011; EP 19873567 A 20191011; JP 2019040247 W 20191011; JP 2020553158 A 20191011